WICHITA, KS

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	•			((See Instr	uctions on Re	everse Side	e)					
Open Flo	ow			*									
Deliverabilty				Test Date: 4-3-14				i No. 15 -071-20741-0					
Company				-//	/	Lease		 	,		Well N	umber	
Horseshoe O	perating, li	nc.	_			Housel	nolder		•	2-29	**********	annoci	
County Location			Section	****			RNG (E/W)			Acres Attributed			
Greeley C NE			<u> 29</u>	29 20\$			40W 640						
Field				Reservoir					thering Conne	ection		_ _	
Bradshaw					U. Winfield Plug Back Total Depth				DCP Midstream Packer Set at				
Completion Da 3-20-2001	ite			2818	K IOTAL D	epin		Packer	Set at				
Casing Size		Weight		Internal (Diameter	Set	at	Perfo	orations	To		·	
.5 10.5			4.09		2847		2794		2798				
ubing Size Weight			Internal Diameter		Set at		Perforations		То				
2.375 4.7			1.995			2812		·					
ype Completion Single - Gas)			Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No					
roducing Thru		Tubinal			Water % Carbon Dioxide				Pump Unit - Rod % Nitrogen Gas Gravity - G				
noucing min Innulus	ı (Annuna /	rubing)		76 C	albon DR	oxide		% INITIO	jen	Gas	aravity -	G	
ertical Depth(H)			·	· Pr	essure Taps				(Meter	Run\ /	Prover) Size	
2796					Flange					2"	110117 (10461) 3126	
		- 4	-2	0 14 at_				4	3	14 at 8,	100	Δ	
ressure Build	up: Shut ir		2	0 <u>/</u> at	0,00	_ (AM) (PM)	Taken		<u> </u>	at		(AM) (PM)	
Vell on Line:	Started		2	0 at		_ (AM) (PM)	Taken		20	at		(AM) (PM)	
											-		
					OBSER	/ED SURFAC		, -		Duration of Shu	t-in	Hours	
itatic / Orifice Circle one:		Pressure Flowing Well Head		Wollhaad Droceura		Tubing Wellhead Pressure		Duration Liquid		id Produced			
ynamic Si roperty (incl	res) Prover	Prover Pressure		Temperature t	Temperatu t	rature (P.) or (P.) or (P.)		(P _w) or (P _t) or (P _c)		(Hours)		(Barrels)	
	psi	(Pm)	Inches H ₂ 0			psig	psia	psig	psia				
Shut-In	ļ						92.8			24			
Flow					_								
		-	_		ri ow o		IDUTEO.	<u> </u>		- -			
	Gi-ui		<u> </u>		FLOWS	TREAM ATTE	1100169					Т	
Plate Coefficcient	Circle one: Meter or		Press Extension	Grav		-	Flowing Dev Temperature E-		Metered Flow			Flowing / Fluid	
$(F_b)(F_p)$	Prover Pressure		√ P _m xh	Factor F _g		Factor		ctor Fpv	R (Mcfd)	(Cubic F Barre		Gravity	
Mcfd	psia					F _{ft}	_	-				G _m	
	<u> </u>												
			-	(OPEN FLO	OW) (DEL	IVERABILITY) CALCUL	ATIONS	•	(D	12 0.0		
c)2 =	_: (P_)2 =	:	P_a=			· ⁻ - 14.4) +		:		$()^2 = 0.2$ $()^2 = 0.2$	207	
		Chi	oose formula 1 or 2:	•			ssure Curve			<u>'- a</u>	<u> </u>		
(P _c) ² - (P _a) ²	(P _c)2- (P		1. P ₆ ² -P ₈ ²	LOG of formula			pe = "n"	пх	LOG	Antilog	1	pen Flow liverability	
$(P_c)^2 - (P_d)^2$		1	2. P _c ² -P _d ²	1. or 2. and divide	P _c ² -P _w ²		signed		.	Allilog		R x Antilog	
	<u> </u>	divi	ded by: P _e ² -P _y ²	by:	<u> </u>	Stand	ard Slope				 	(Mcfd)	
	<u> </u>				/	_\					}	}	
	1					-							
	<u>.</u> .				•		4						
pen Flow			Mcfd @ 14.0	55 psia		Deliverat	ility	. .	<u> </u>	Mcfd @ 14.65 ps	sia		
The unders	signed autho	rity, on t	ehalf of the	Company, s	tates that	he is duly at	uthorized to	o make th	e above repor	t and that he h	as know	ledge of	
e facts stated							II	day of/	MALL	at		20 14	
		1	. Sport to truc	OUIGUI		Olu Can	$\overline{}$		ways.	1	,	CEIVED	
							<u>.(</u>)	ania	11 KM	LLAKANSAS		RATION COMMIS	
		litness (if an	y)			_		, , 66' 60'	Fo	этпралу			
	F	or Commiss!	on			-	. <i>v</i>		Check	ced by:	AUG	0.6.2014	
r it is		 	. :				, t	4	a. 7	أبراء	ONSERV	ATION DIVISION	

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	er Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the foreg	oing pressure information and statements contained on this application form are true and
correct to the best	of my knowledge and belief based upon available production summaries and lease records
of equipment insta	llation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	st a one-year exemption from open flow testing for the Householder 2-29
gas well on the gro	ounds that said well:
(Check	one)
,	is a coalbed methane producer
H	is cycled on plunger lift due to water
	is a source of natural gas for injection into an oil reservoir undergoing ER
Ħ	is on vacuum at the present time; KCC approval Docket No
7	is not capable of producing at a daily rate in excess of 250 mcf/D
l further agree	to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary	to corroborate this claim for exemption from testing.
<i>a</i> 11 11	1
Date: 8-4-/4	<u>r </u>
	•
	Signatura, Osmine, Rinder
	Signature: January Tipelly
,	Title: Production Assistant

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under OBSERVED SURFACE DATA. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.